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(71) Applicant (for all designated States except US): **VIRGINIA TECH INTELLECTUAL PROPERTIES, INC.**; 1872 Pratt Drive, Suite 1625, Blacksburg, VA 24060 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RAMU, Krishnan** [US/US]; 419 Ridgeview Drive, Blacksburg, VA 24060 (US). **LOBO, Savio, Nimal** [IN/US]; 2512 Manchester Street, Blacksburg, VA 24060 (US).

(74) Agent: **LEDBETTER, James, Edward**; Stevens, Davis, Miller & Mosher, LLP, 1615 L. Street, NW, Suite 850, Washington, DC 20036 (US).

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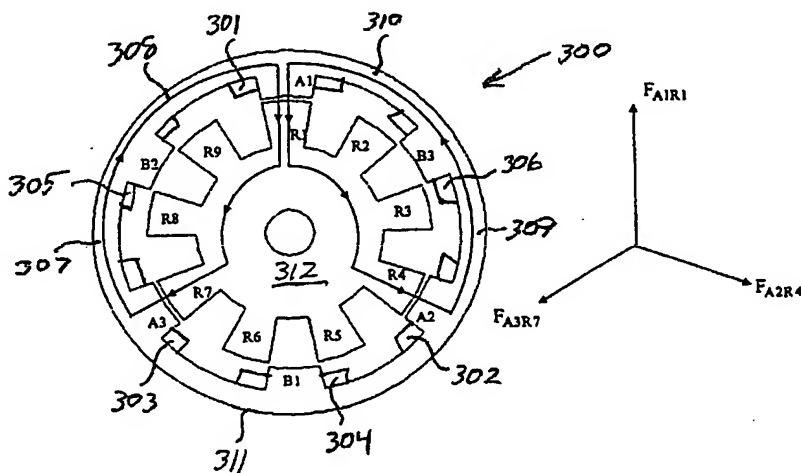
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS AND METHOD THAT PREVENT FLUX REVERSAL IN THE STATOR BACK MATERIAL OF A TWO-PHASE SRM (TPSRM)



(57) Abstract: A two-phase switched reluctance motor includes a stator (311) made of ferromagnetic material with stator poles and a rotor (312) made of ferromagnetic material with rotor poles. There are two-phase windings (301-306) on the stator poles. The number of stator and rotor poles are selected such that no flux reversal occurs in any part of the stator core as a result of transitioning between the first and second excitation phases.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08114

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H02K 19/00, 17/00, 17/42

US CL : 310/162, 166, 168

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 310/162, 166, 168

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,051,903 A (PENGOV) 18 April 2000 (18.04.2000), see entire document.	1-20
X	US 6,194,805 B1 (HEESE et al) 27 February 2001 (27.02.2001), see entire document.	14
Y	US 5,146,127 A (SMITH) 08 September 1992 (08.09.1992), see entire document.	6, 7
Y	US 3,956,678 A (BYRNE et al) 11 May 1976 (11.05.1976), see entire document.	6, 7



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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Dang Le

Telephone No. (571) 272-2800

Renetha